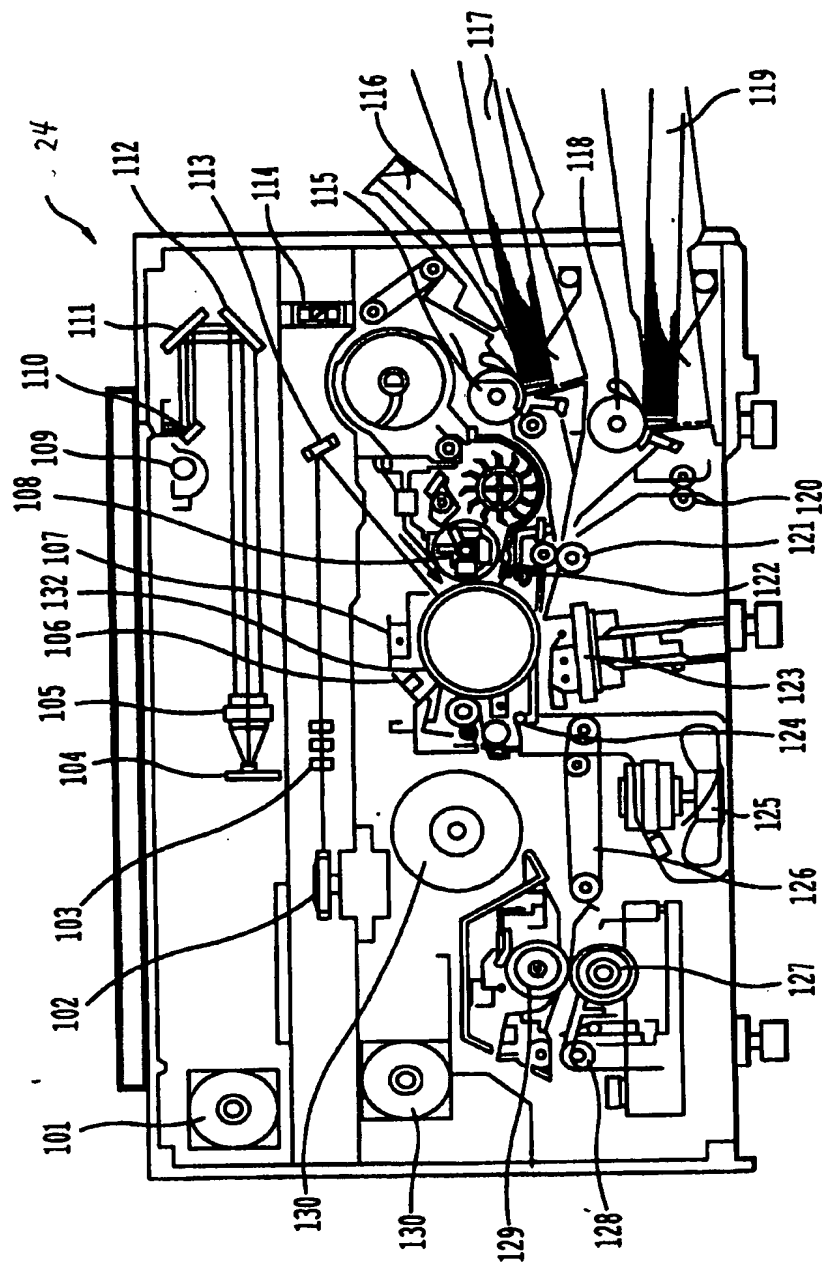
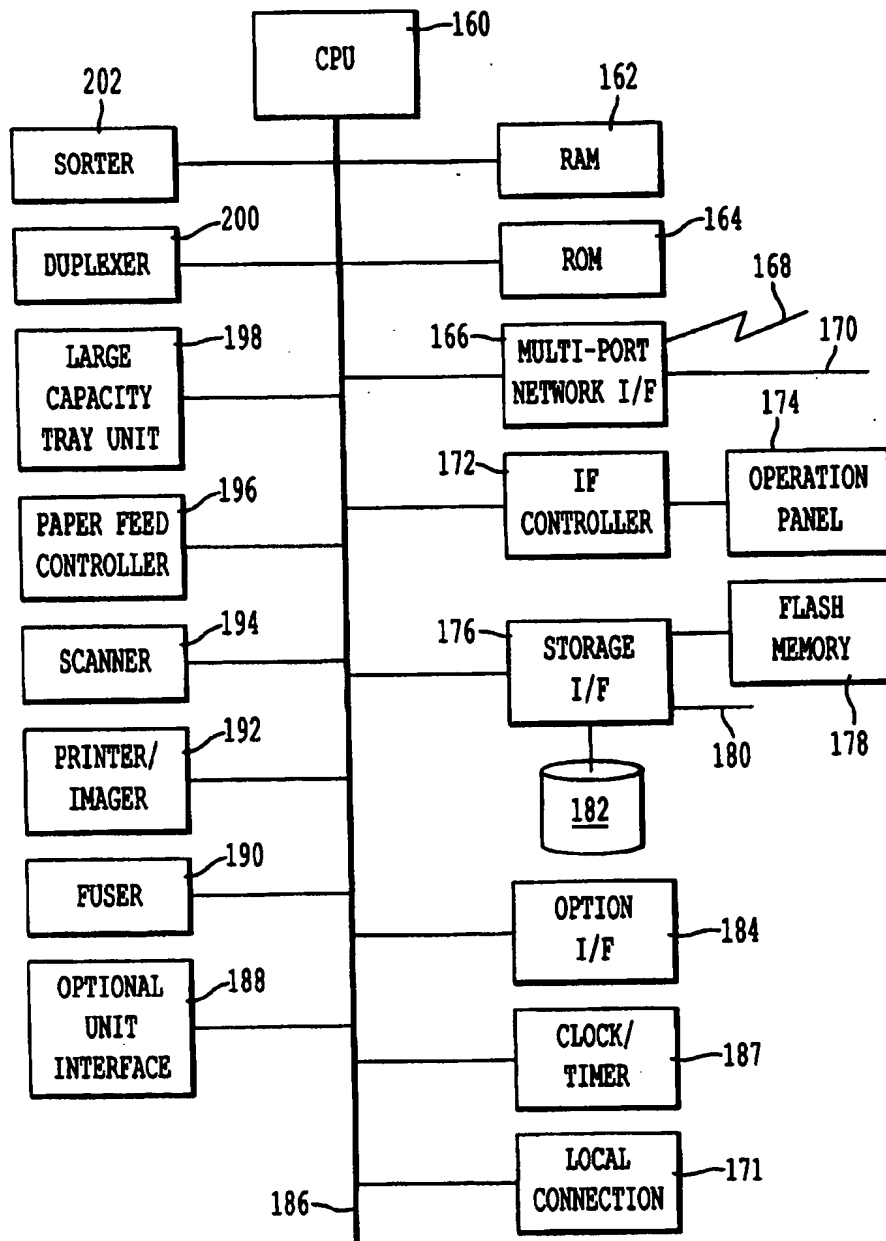


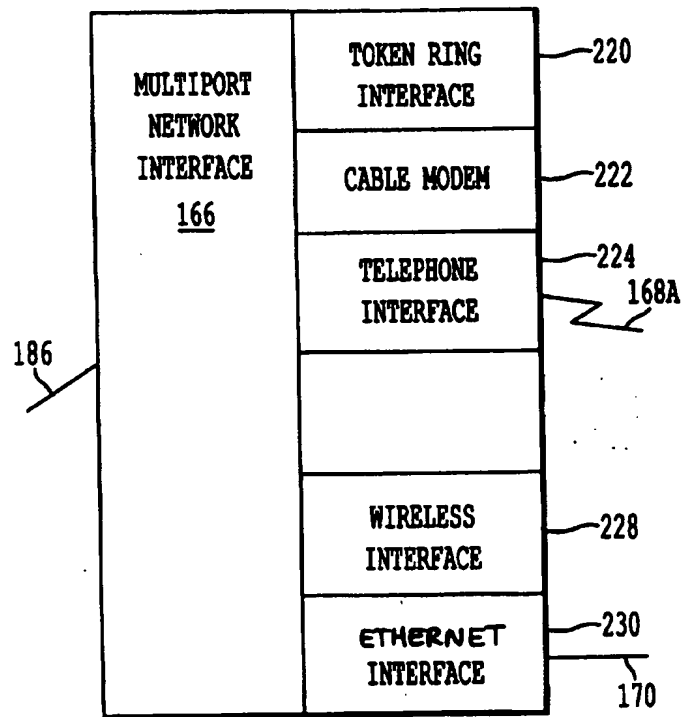
**FIG. 1**



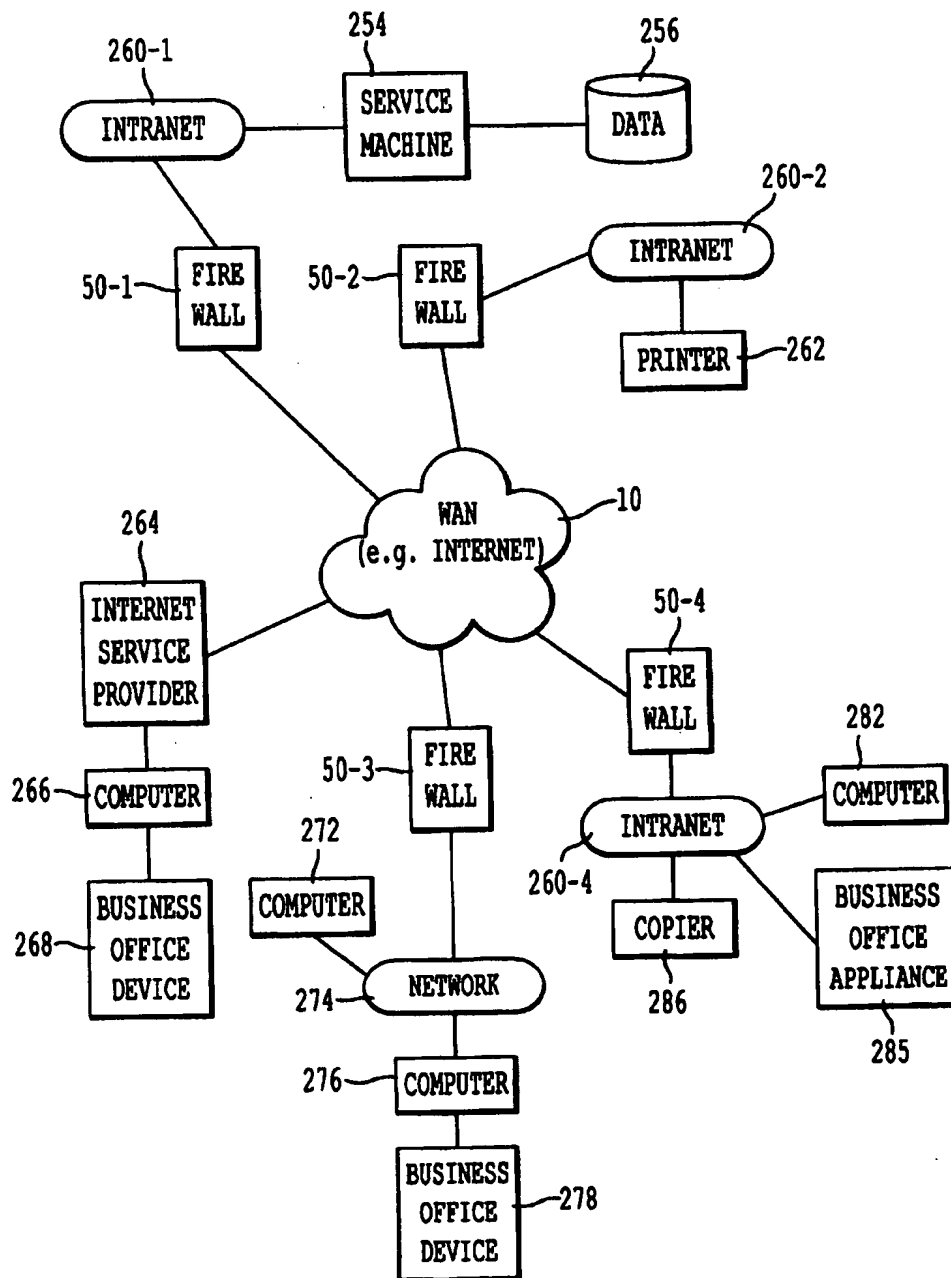
**FIG. 2**



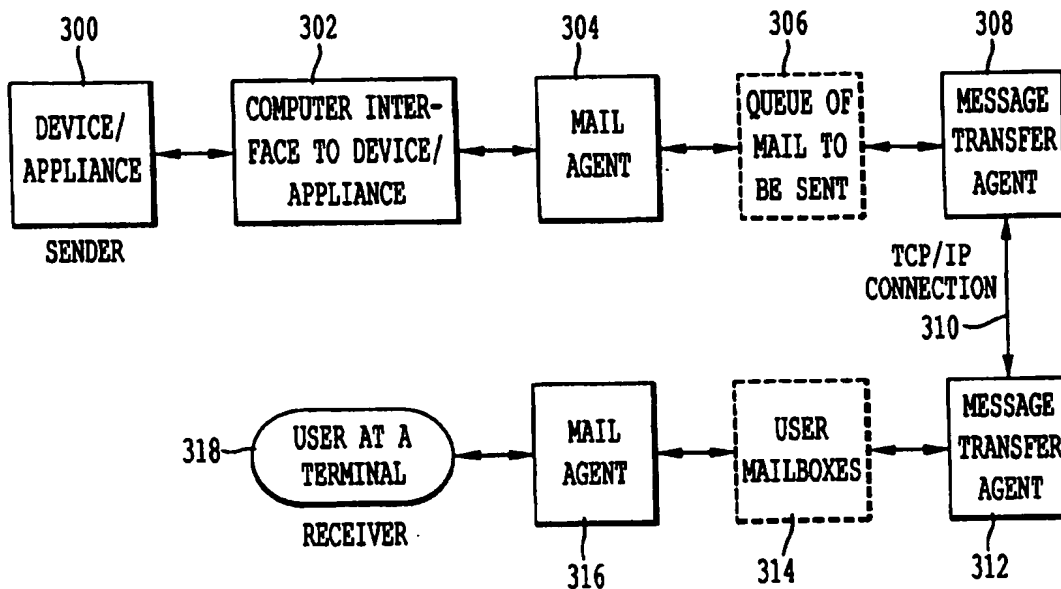
**FIG. 3**



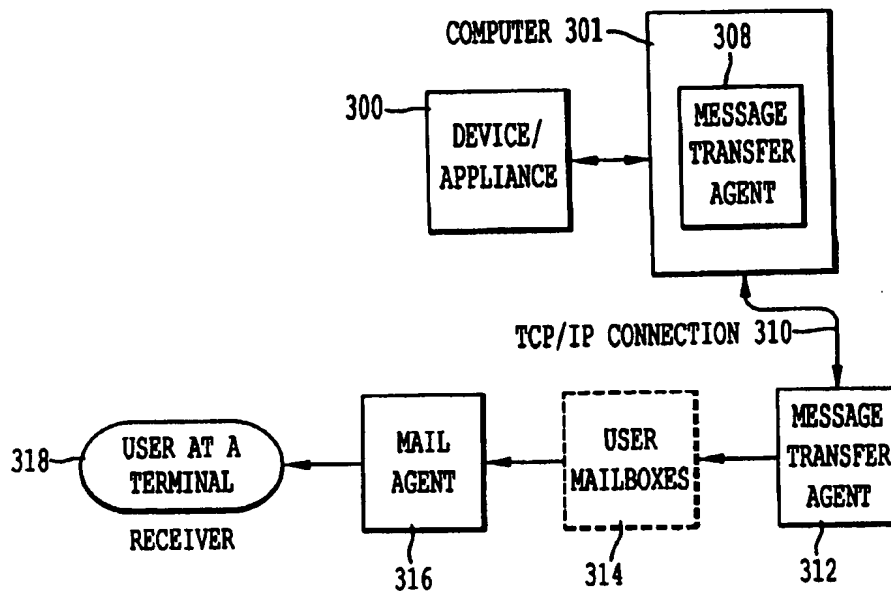
**FIG. 4**



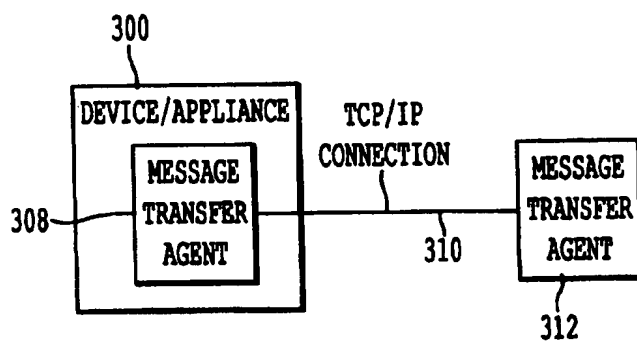
**FIG. 5**



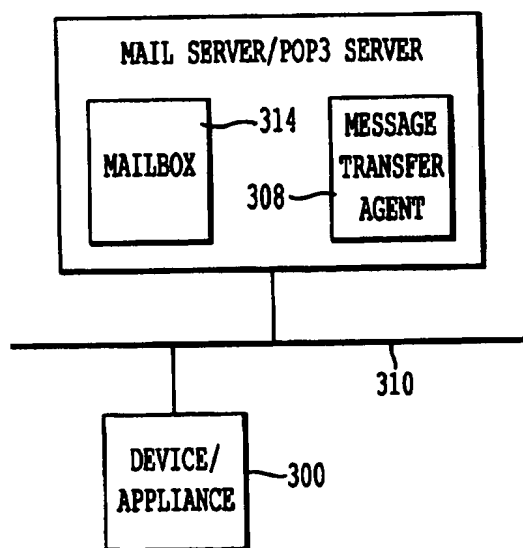
**FIG. 6A**



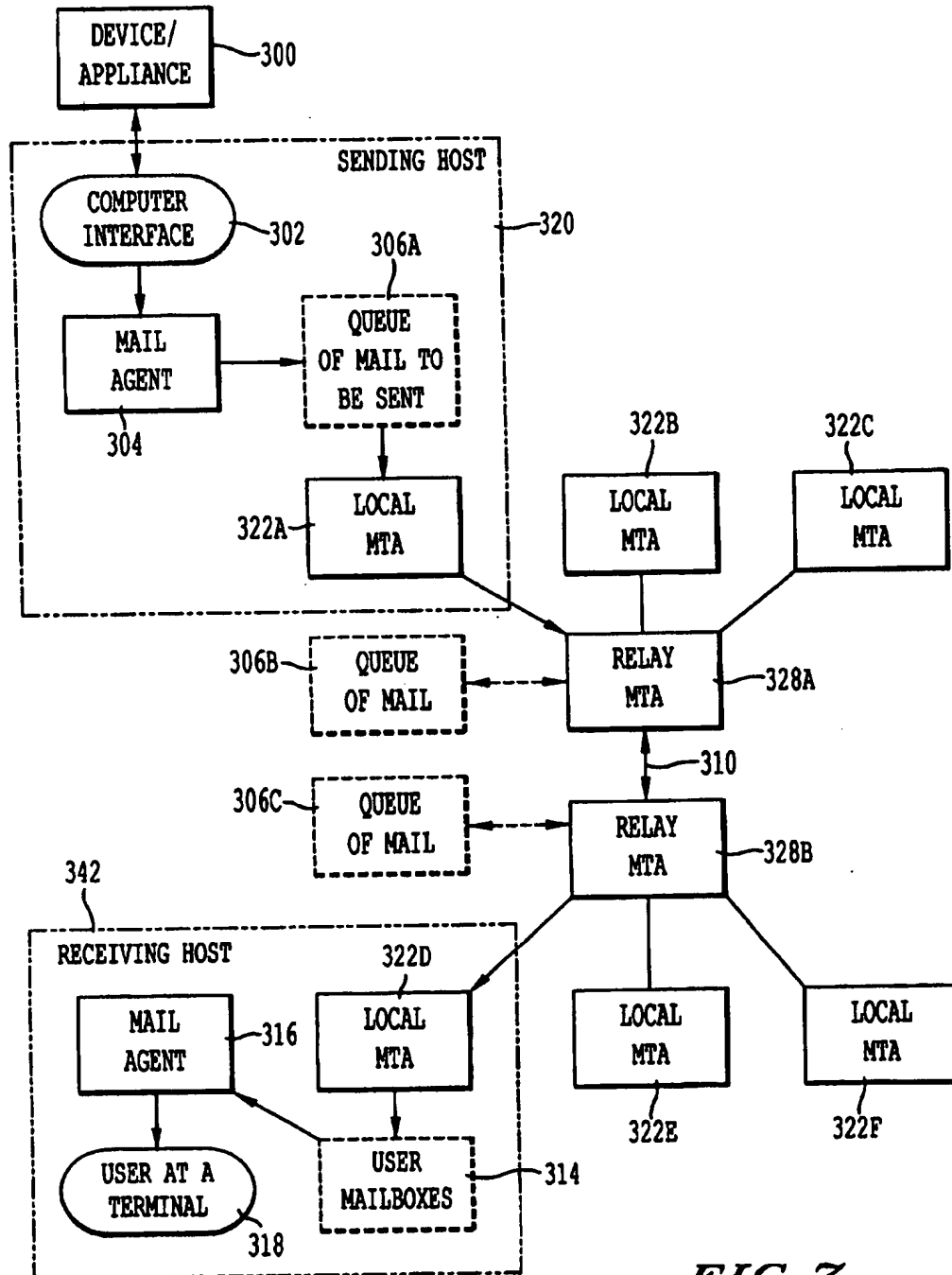
**FIG. 6B**



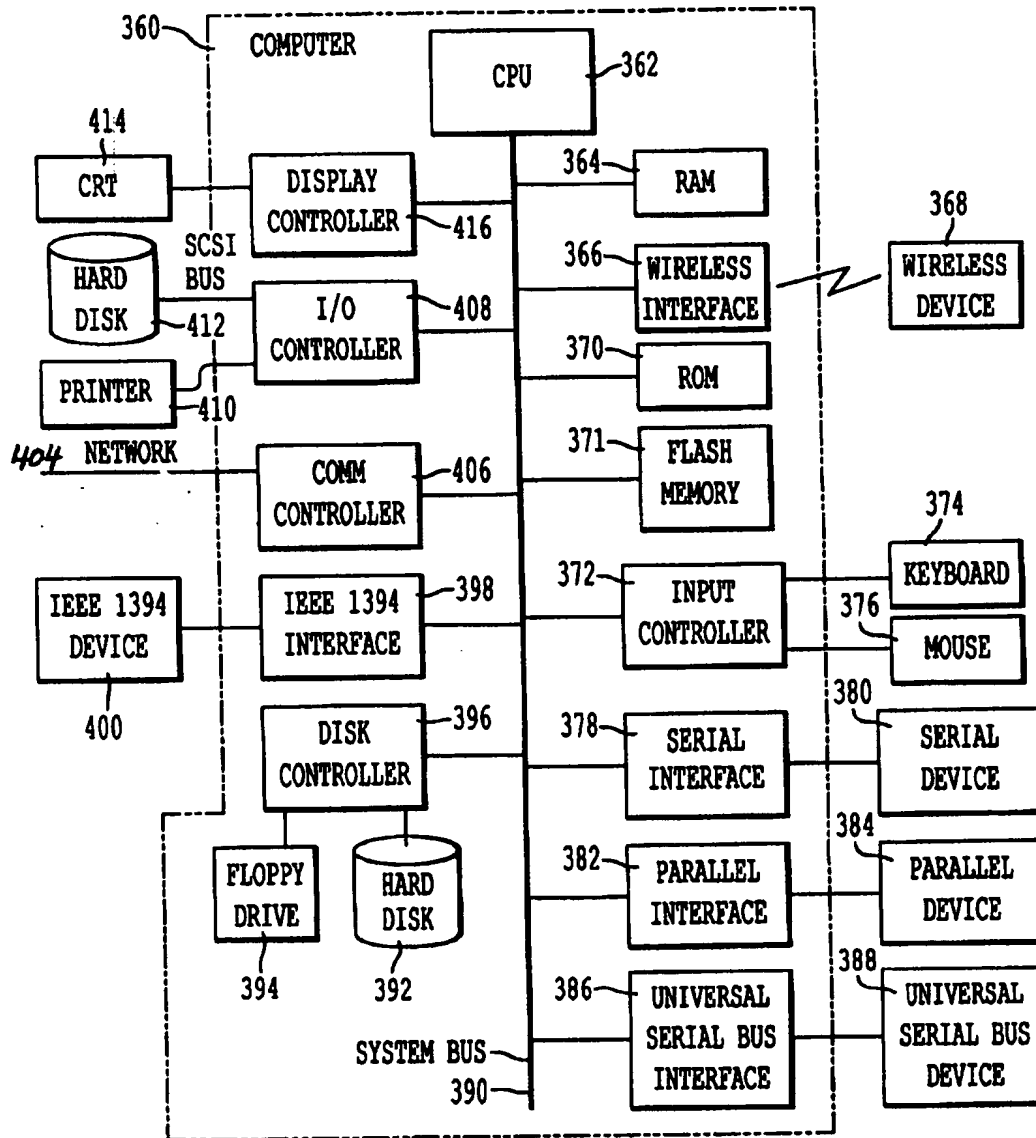
**FIG. 6C**



**FIG. 6D**



**FIG. 7**



**FIG. 8**

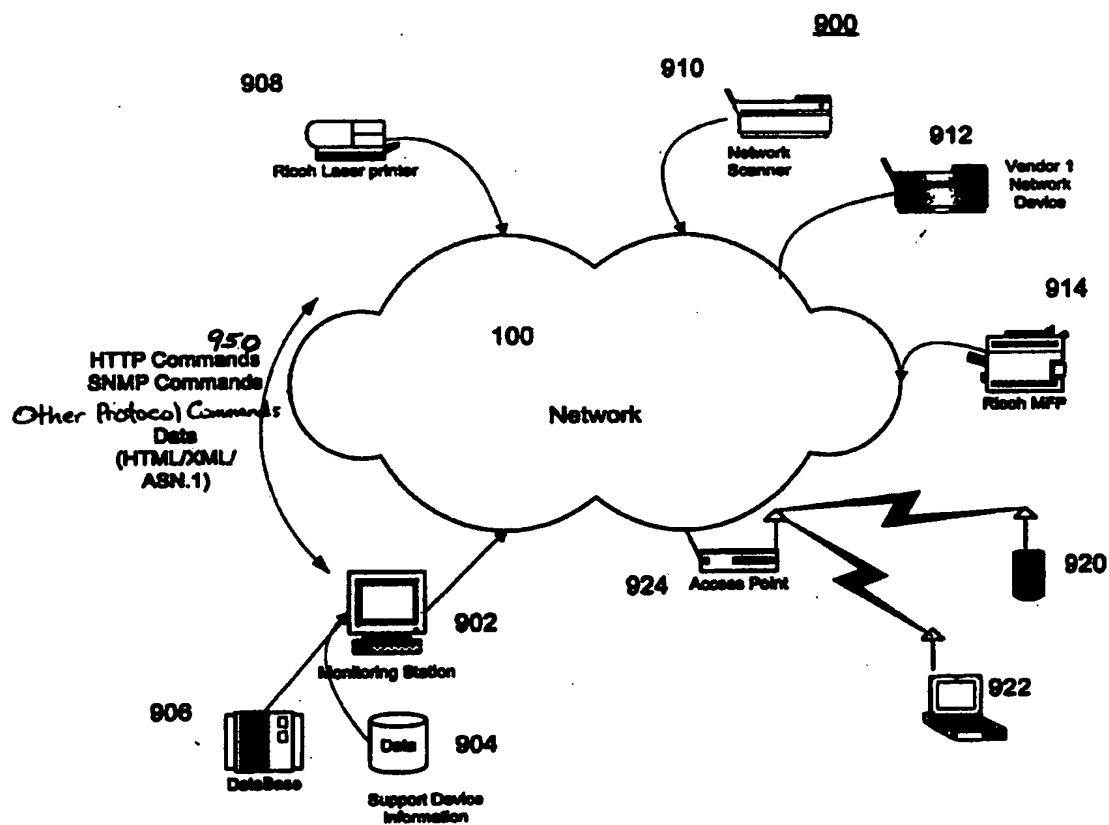


Figure 9

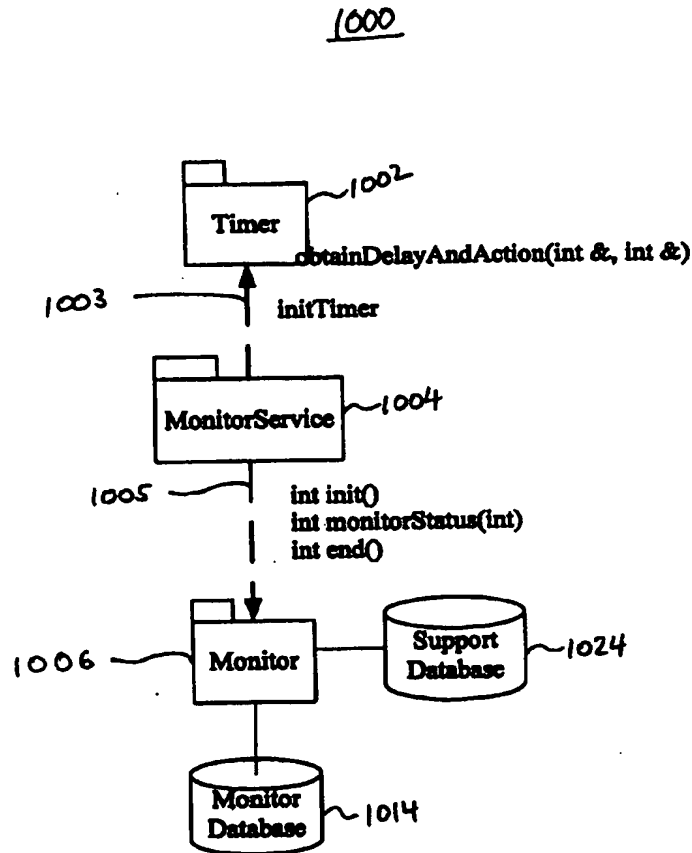


FIG. 10

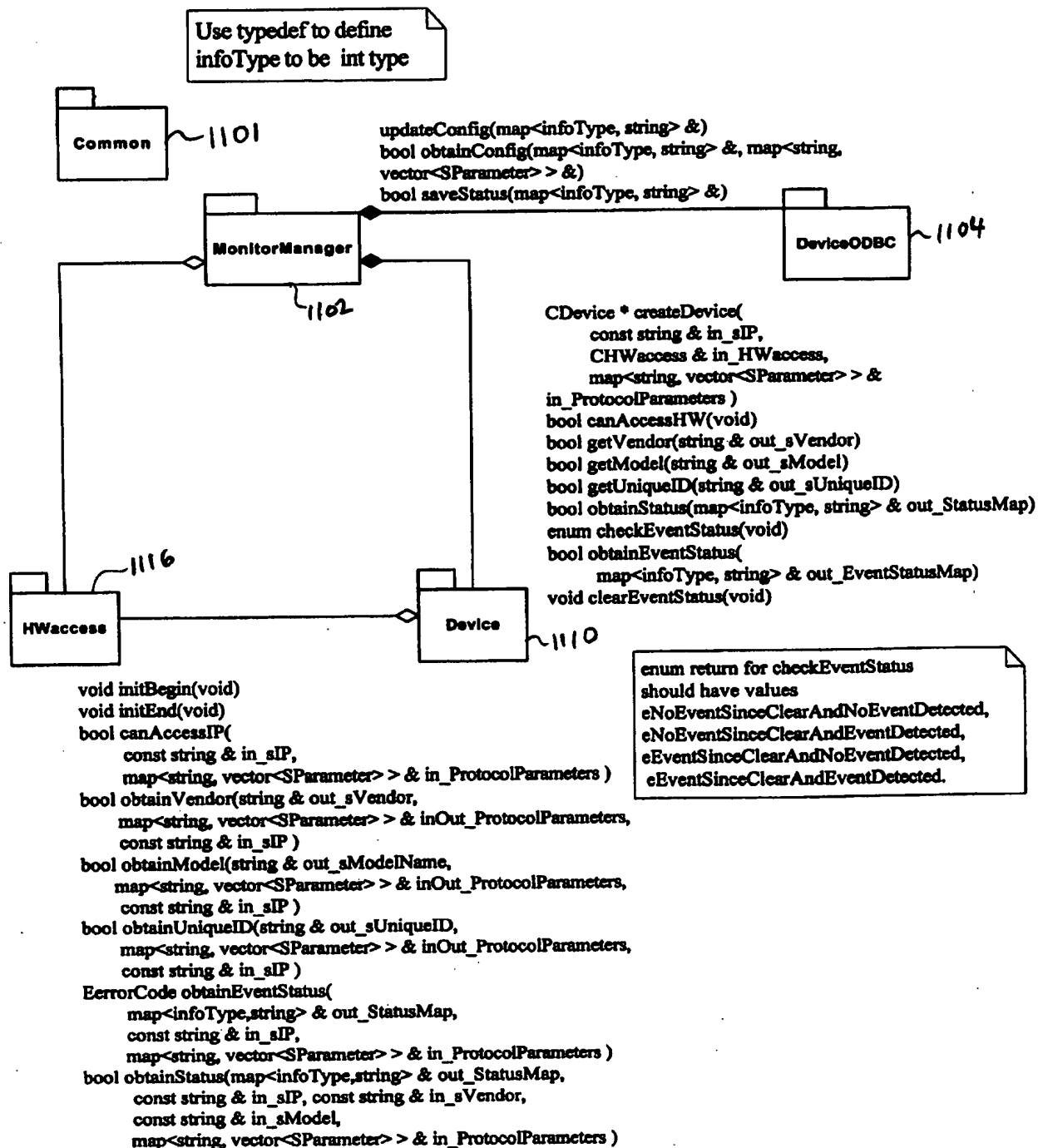


FIG. 11

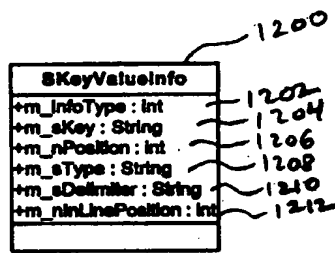


FIG. 12

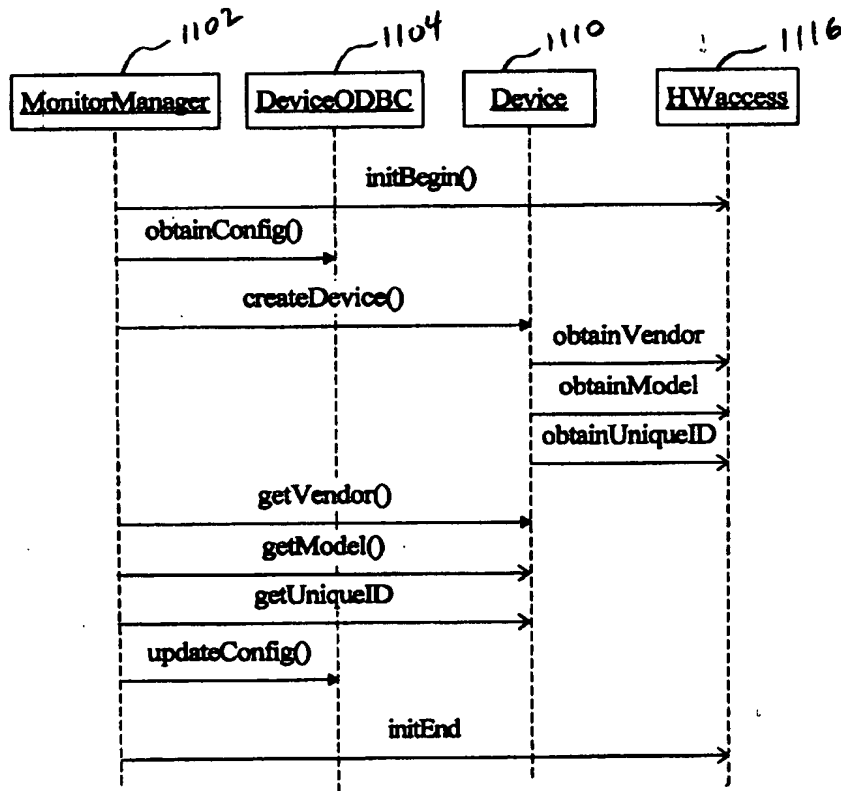


FIG. 13

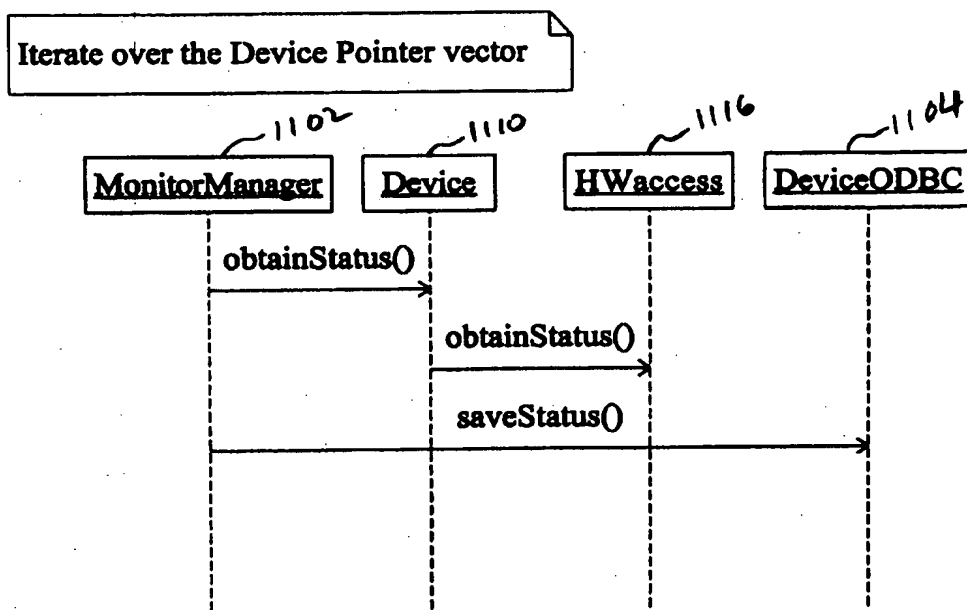


FIG. 14

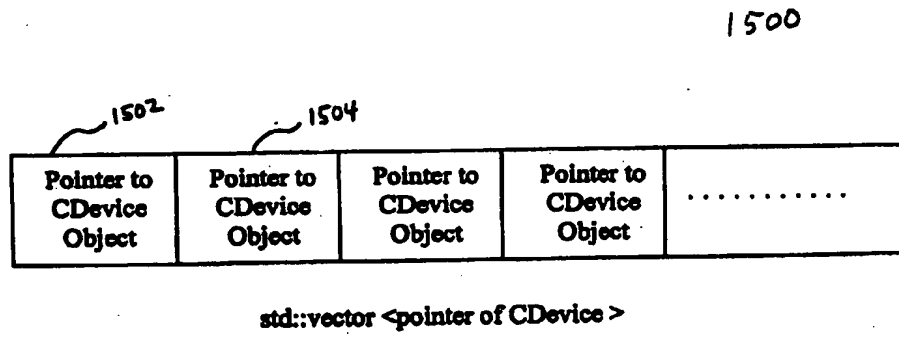


FIG. 15

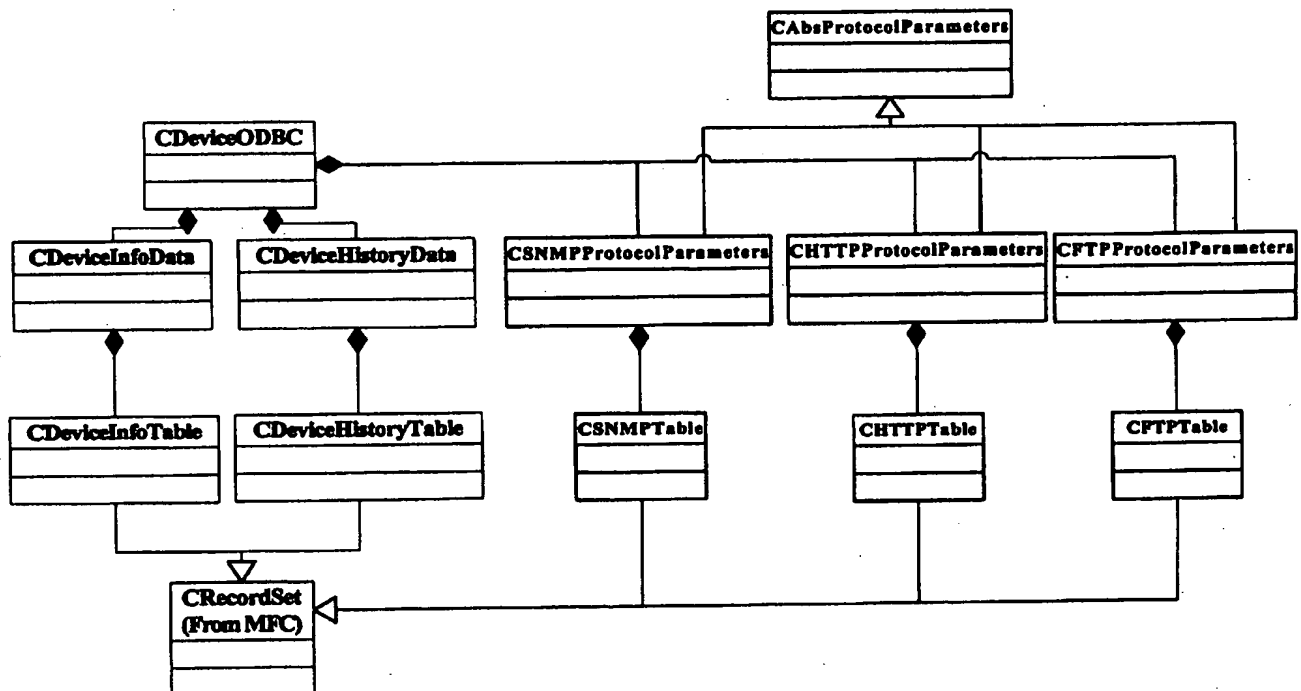


FIG. 16

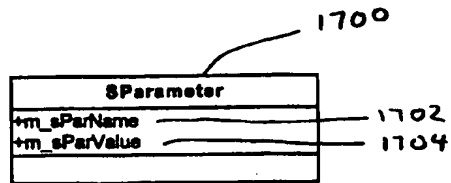


FIG. 17

Diagram illustrating a table (1800) mapping protocols to SParameter vectors. The table has two columns: "Protocol (Key)" and "Vector of SParameter (Value)".

Protocol (Key)	Vector of SParameter (Value)
"SNMP"	
"HTTP"	
"FTP"	

Reference numerals 1802, 1804, and 1806 point to the "SNMP", "HTTP", and "FTP" rows, respectively. Reference numerals 1808, 1810, and 1812 point to the corresponding empty cells in the "Vector of SParameter (Value)" column.

FIG. 18

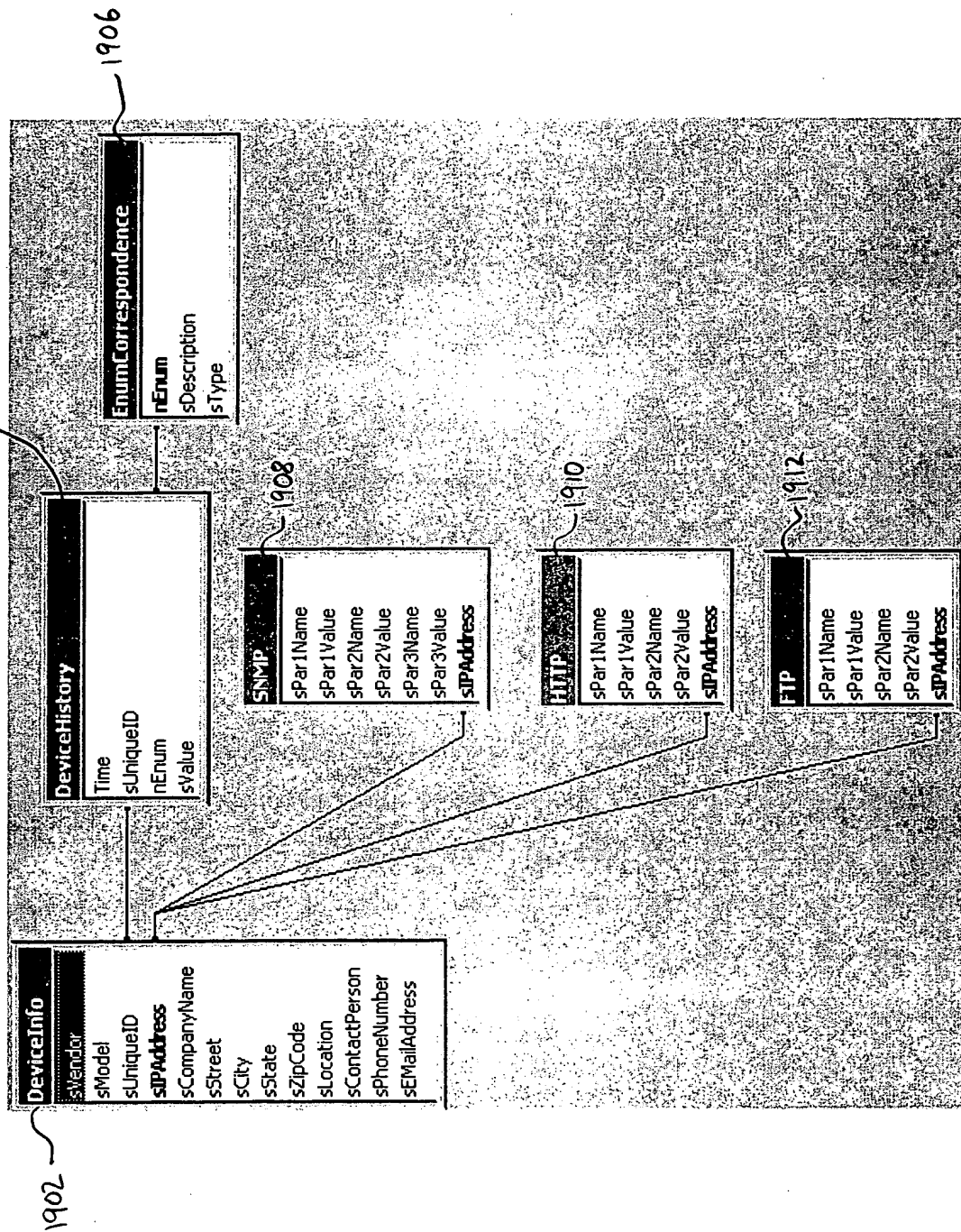


FIG. 19

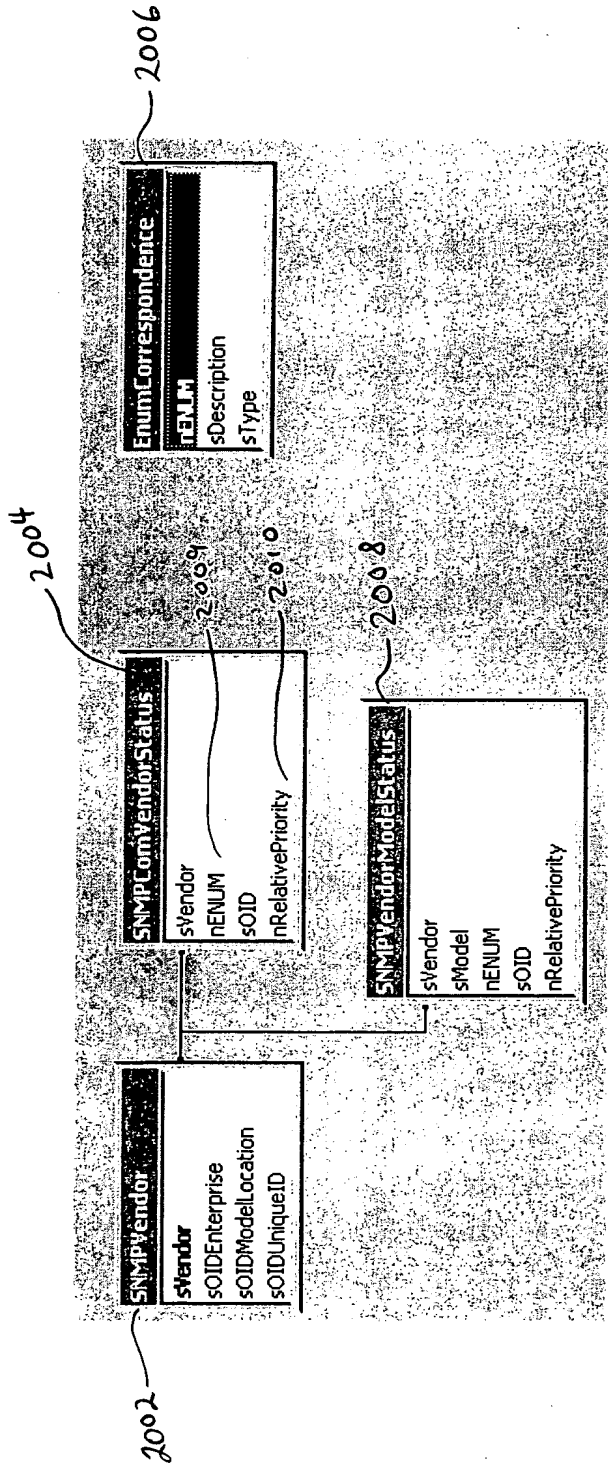


FIG. 20

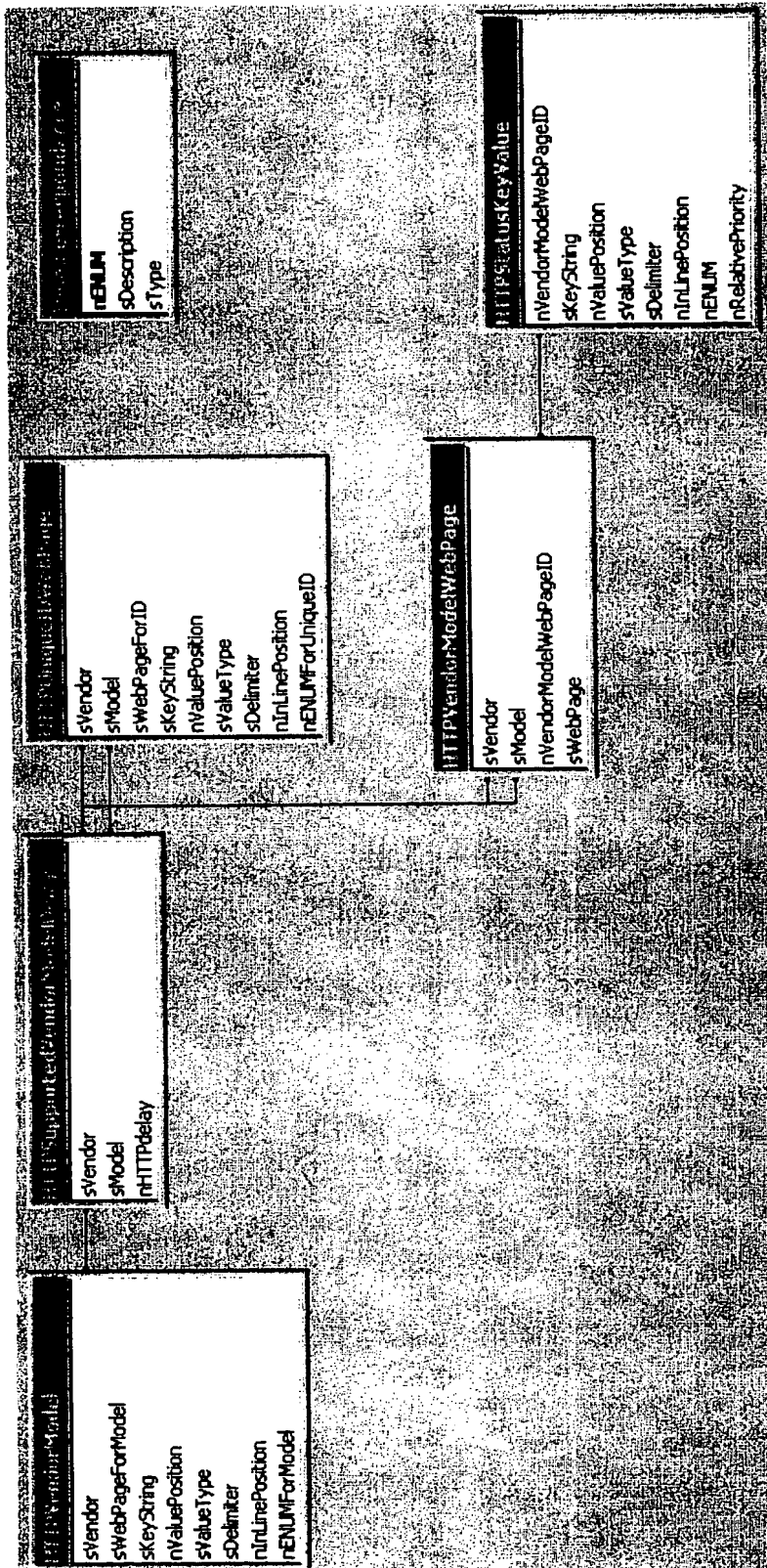


FIG. 21

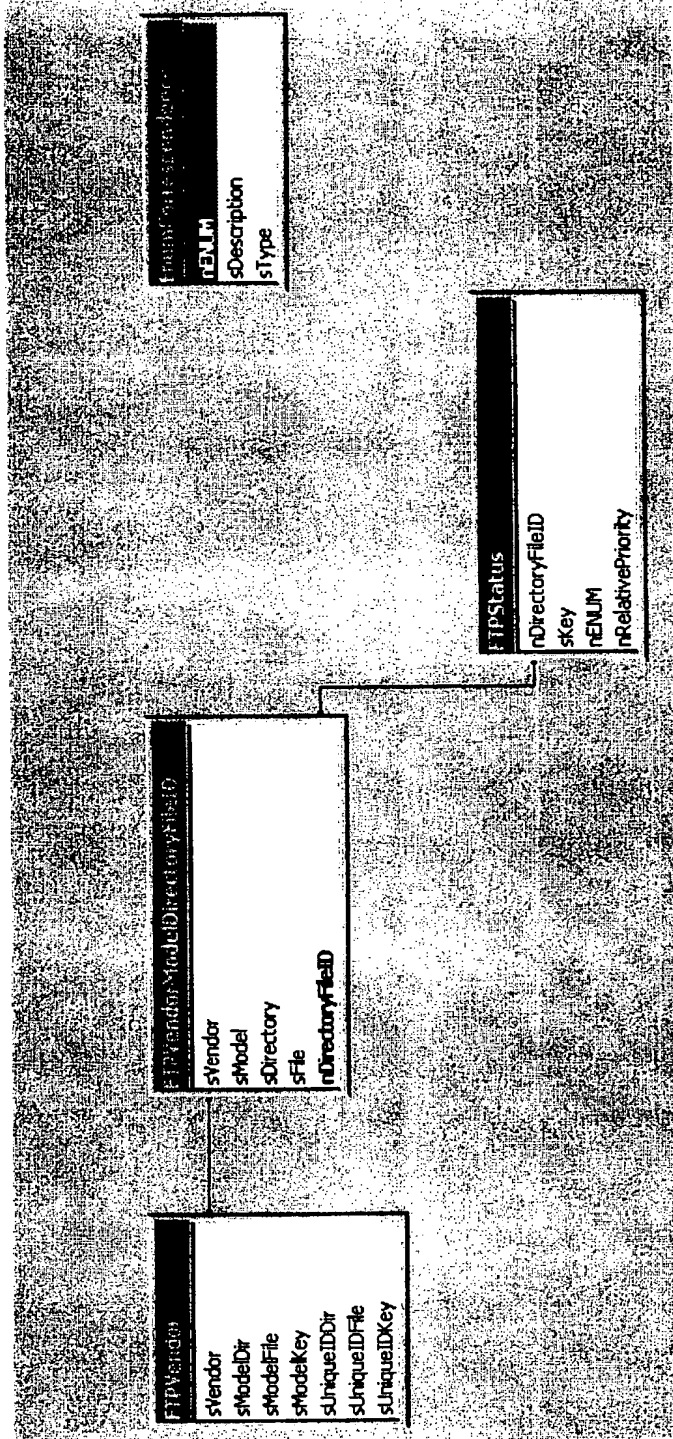


FIG. 22

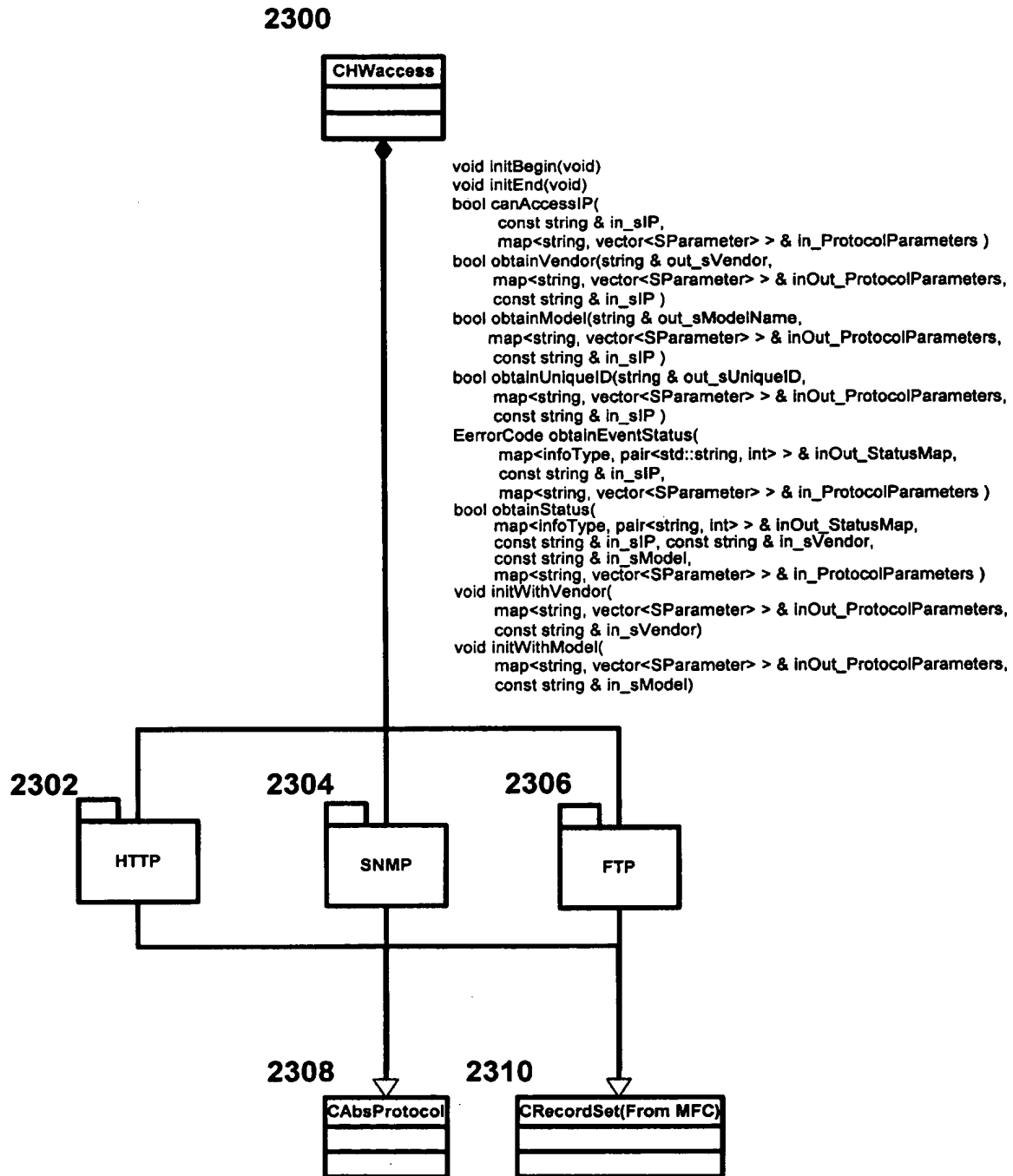


FIG. 23

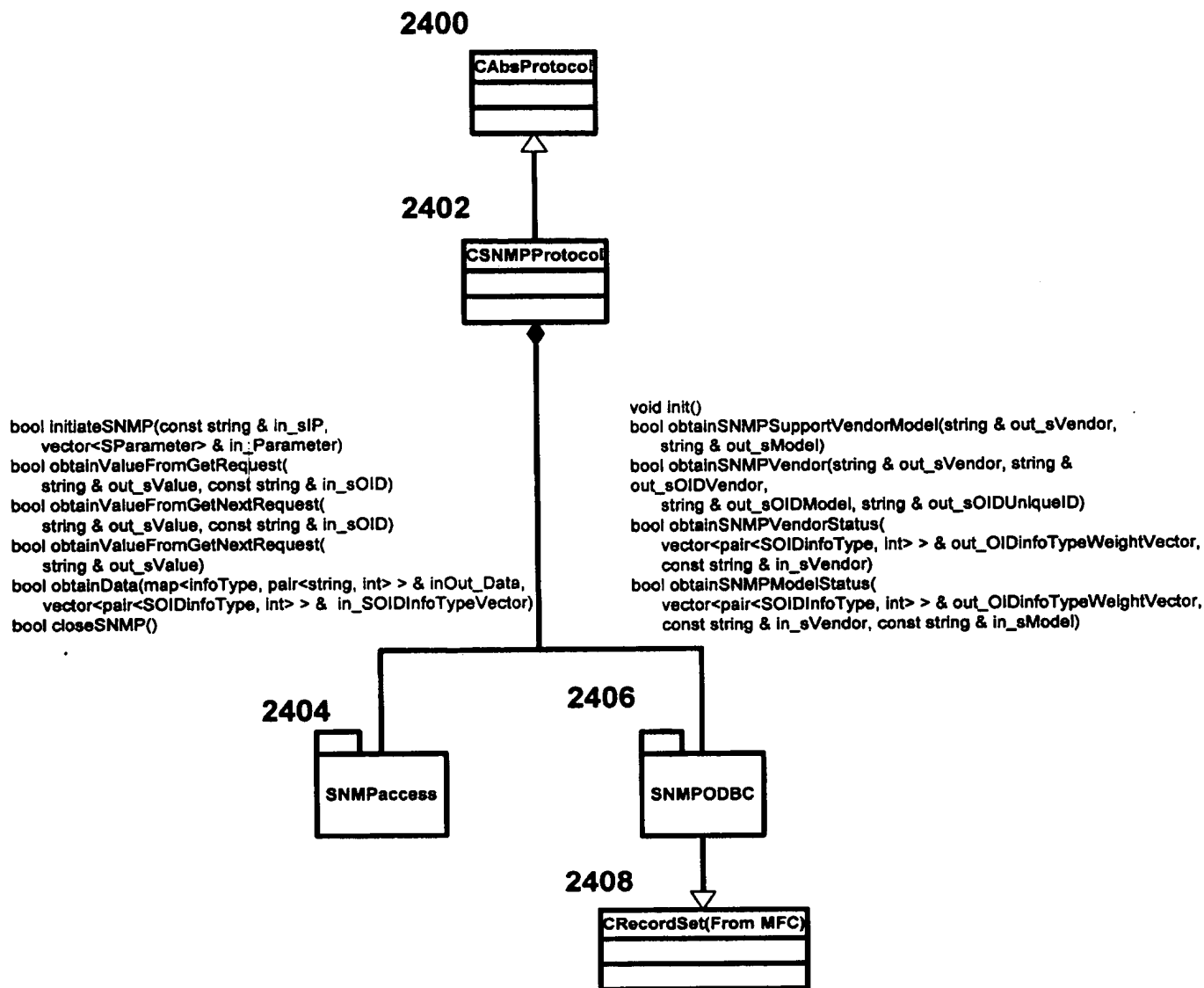


FIG. 24

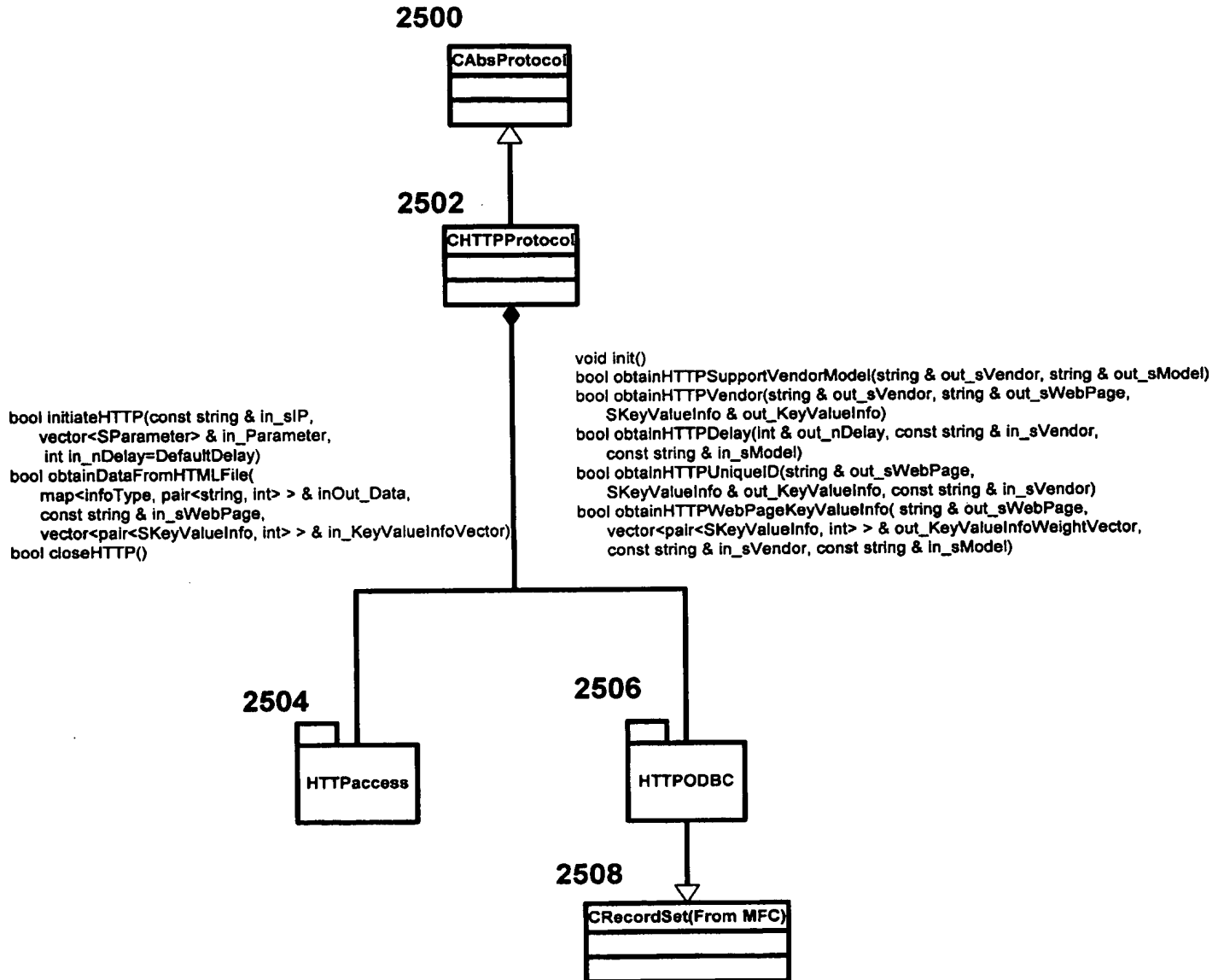


FIG. 25

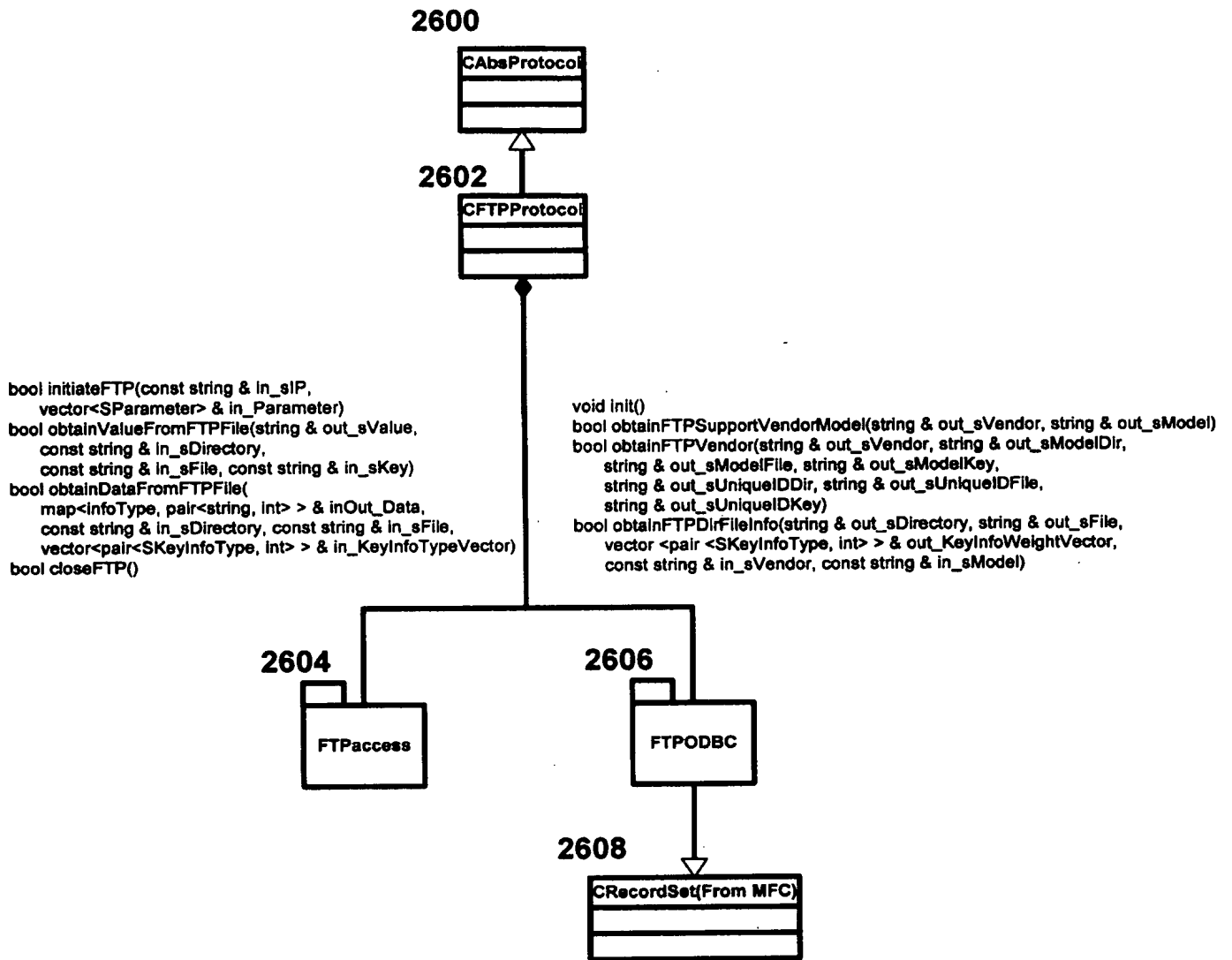


FIG. 26

**Vector of CAbsProtocol\***  
**500**

<b>CAbsProtocol*</b> <b>502</b>	<b>CAbsProtocol*</b> <b>504</b>	<b>CAbsProtocol*</b> <b>506</b>	...
------------------------------------	------------------------------------	------------------------------------	-----

**FIG. 27A**

**std::map<std::string, std::map<std::string, std::vector<std::pair<SOIDinfoType, int> > > >**  
**510**

<b>string</b> <b>512</b>	<b>map</b> <b>514</b>	
	<b>string</b> <b>516</b>	<b>vector</b> <b>518</b>
<b>Ricoh</b>	<b>GENERIC</b>	<b>&lt; (SOIDinfoType1, int1), (SOIDinfoType2, int2) &gt;</b>
	<b>Aficio 1224C</b>	<b>&lt; (SOIDinfoType3, int3) &gt;</b>
<b>Xerox</b>	<b>GENERIC</b>	<b>&lt; (SOIDinfoType4, int4), (SOIDinfoType5, int5) &gt;</b>
	<b>DocuPrint NC60</b>	<b>&lt; (SOIDinfoType5, int5) &gt;</b>

**FIG. 27B**

**std::map<std::string, std::map<std::string, std::vector<SWebPageInfo> > >**  
**520**

string 522	map 524	
	string 526	vector 528
Ricoh	Aficio X	Vector of <pre> struct SWebPageInfo {     std::string m_sWebPage;     std::vector&lt;std::pair&lt;SKeyValueInfo, int&gt; &gt;         m_KeyValueInfoVector; }; </pre>
Xerox	N4025	

FIG. 27C

**std::map<std::string, std::map<std::string, std::vector<SDirFileStatusInfo> > >**  
**530**

string 532	map 534	
	string 536	vector 538
Ricoh	Aficio	vector of <pre> struct SDirFileStatusInfo {     std::string m_sDirectory;     std::string m_sFile;     std::vector&lt;std::pair&lt;SKeyInfoType, int&gt; &gt;         m_KeyInfoTypeVector; }; </pre>
Xerox	N4025	

FIG. 27D

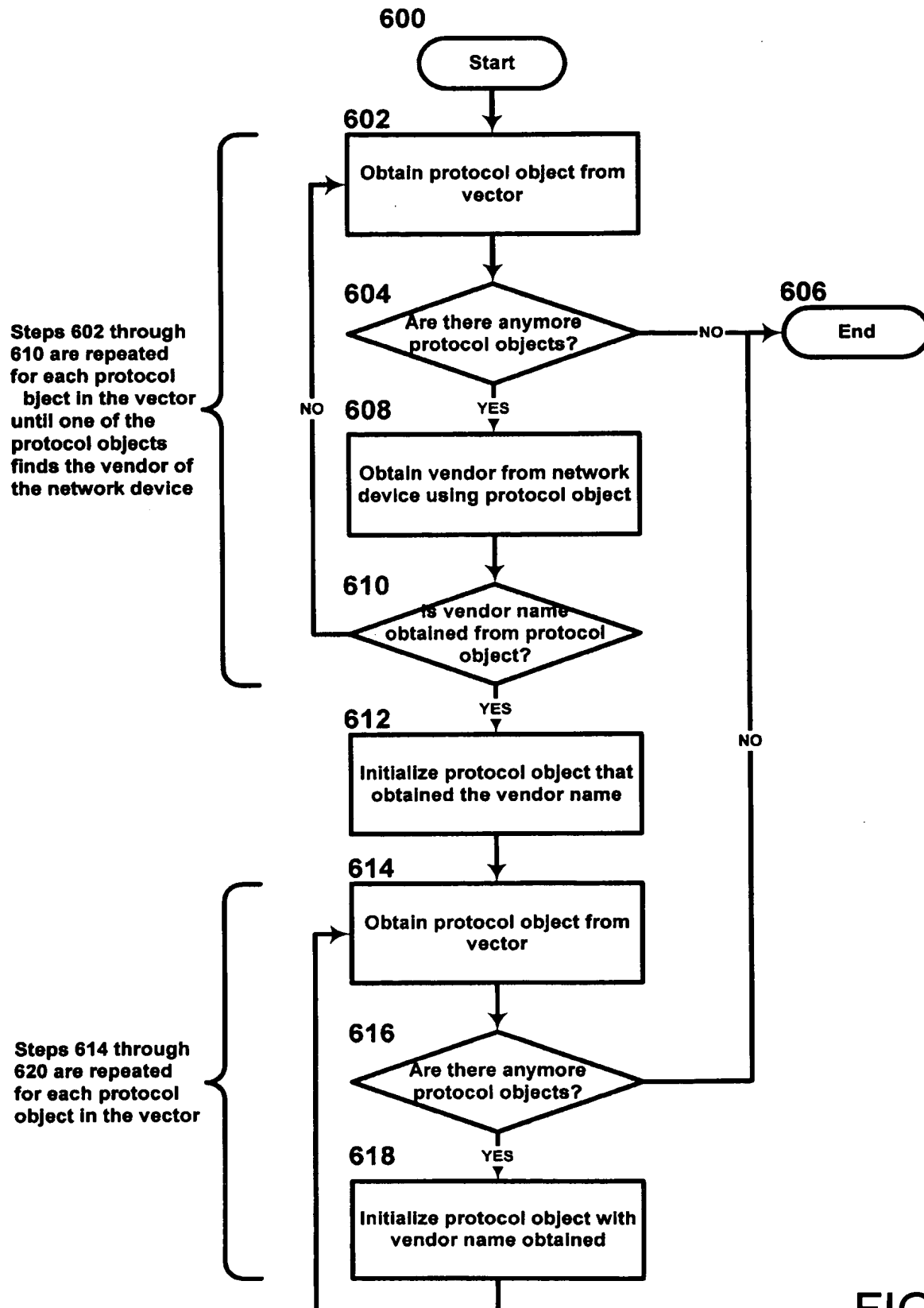


FIG. 28

SNMP Protocol  
700

pair<SOIDInfoType, int> 702	pair<SOIDInfoType, int> 704	...
--------------------------------	--------------------------------	-----

FIG. 29A

706

```

struct SOIDInfoType {
    InfoType m_InfoType;
    std::string m_sOID;
    SOIDInfoType();
    ~SOIDInfoType();
    void clear();
};

```

HTTP Protocol  
708

pair<SKeyValueInfo, int> 710	pair<SKeyValueInfo, int> 712	...
---------------------------------	---------------------------------	-----

FIG. 29B

714

```

struct SKeyValueInfo {
    InfoType m_InfoType;
    std::string m_sKey;
    int m_nPosition;
    std::string m_sType;
    std::string m_sDelimiter;
    int m_nInLinePosition;
    SKeyValueInfo();
    ~SKeyValueInfo();
    void clear();
};

```

FTP Protocol  
716

pair<SKeyInfoType, int> 718	pair<SKeyInfoType, int> 720	...
--------------------------------	--------------------------------	-----

FIG. 29C

722

```

struct SKeyInfoType {
    InfoType m_InfoType;
    std::string m_sKey;
    SKeyInfoType();
    ~SKeyInfoType();
    void clear();
};

```

Status Information Map  
724

726	728
InfoType	pair<string, int>
InfoType	pair<string, int>
InfoType	pair<string, int>
...	...

FIG. 29D

**std::map<std::string, std::map<std::string, std::vector<SDirFileInfo> > >**

**800**

<b>Ricoh</b>	<b>Aficio 120</b>	<b>&lt;SDirFileInfo1, SDirFileInfo2, SDirFileInfo3&gt;</b>

**802**

<b>/pub</b>
<b>status.txt</b>
<b>&lt;(SKeyInfoType1, 1000), (SKeyInfoType2, 5000), (SKeyInfoType3, 10000), (SKeyInfoType4, 7500), (SKeyInfoType5, 625)&gt;</b>

**SKeyInfoType1 corresponds to the infoType 600, SKeyInfoType2 corresponds to the infoType 610, SKeyInfoType3 corresponds to the infoType 620, SKeyInfoType4 corresponds to the infoType 700, and SKeyInfoType5 corresponds to the infoType 710**

**Status Information Map**

**804**

<b>600</b>	<b>("Low Paper", 500)</b>
<b>610</b>	<b>("24321", 10000)</b>
<b>700</b>	<b>("OK", 2500)</b>

**FTP Protocol**

**806**

<b>(SKeyInfoType1, 1000)</b>	<b>(SKeyInfoType3, 10000)</b>	<b>(SKeyInfoType4, 7500)</b>	<b>(SKeyInfoType5, 625)</b>
------------------------------	-------------------------------	------------------------------	-----------------------------

**FIG. 30**

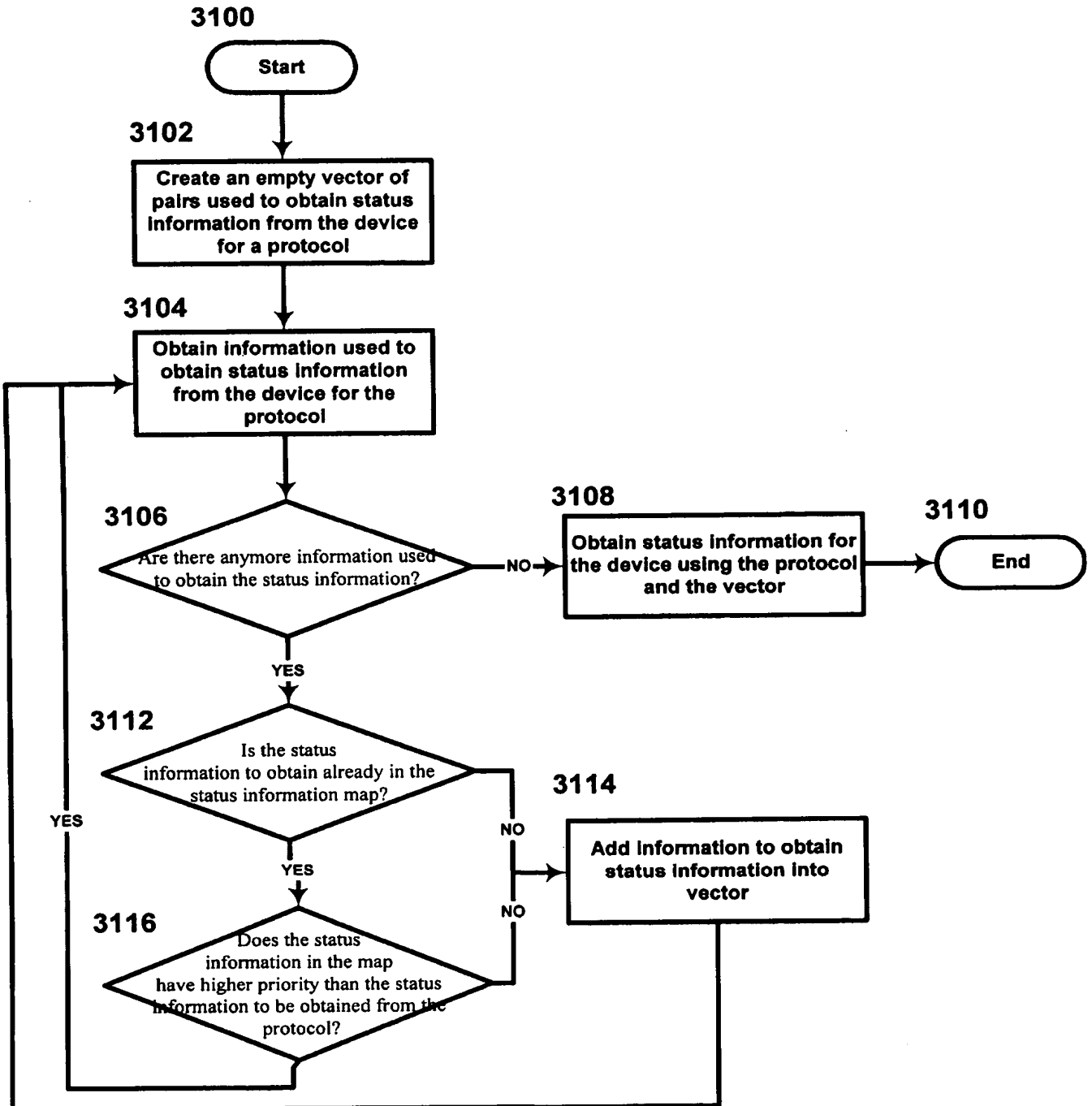


FIG. 31A

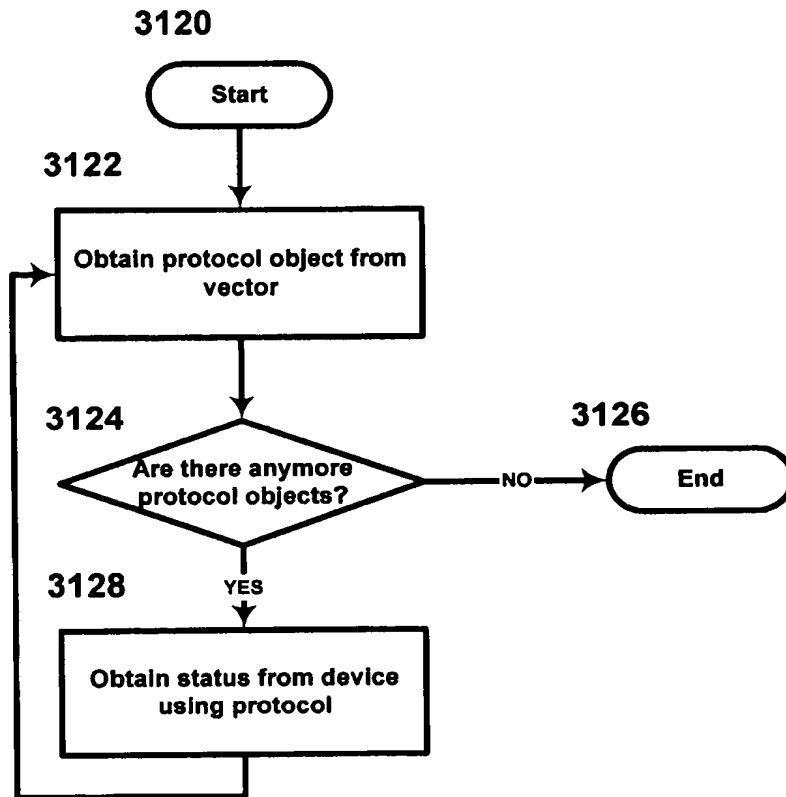


FIG. 31B

Vendor Model Support Map 3200	
3202	3204
string	int
string	int
string	int
string	int
. . .	. . .

FIG. 32A

Sample Vendor Model Support Map 3206	
3208	3210
Xerox%%%%NC60	1
Xerox%%%%N4025	1
HP%%%%LaserJet 9000	1
HP%%%%LaserJet 4550	1
. . .	. . .

FIG. 32B

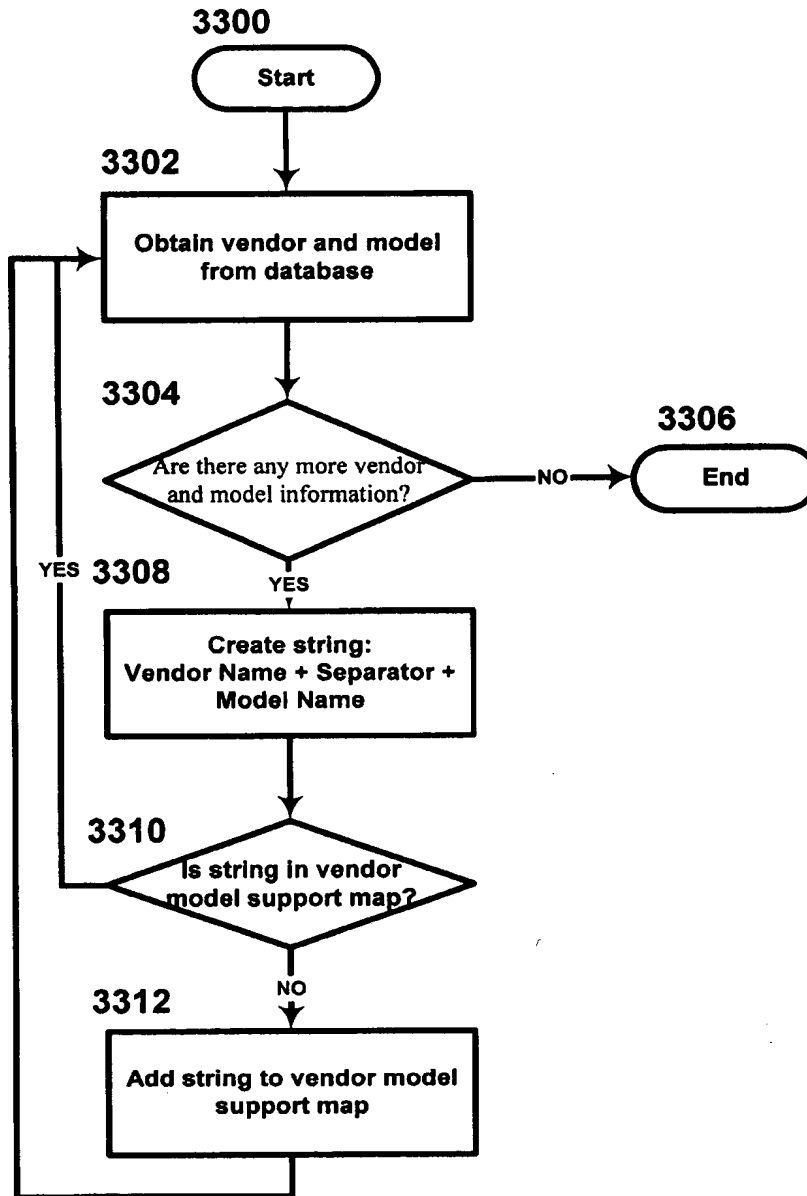


FIG. 33

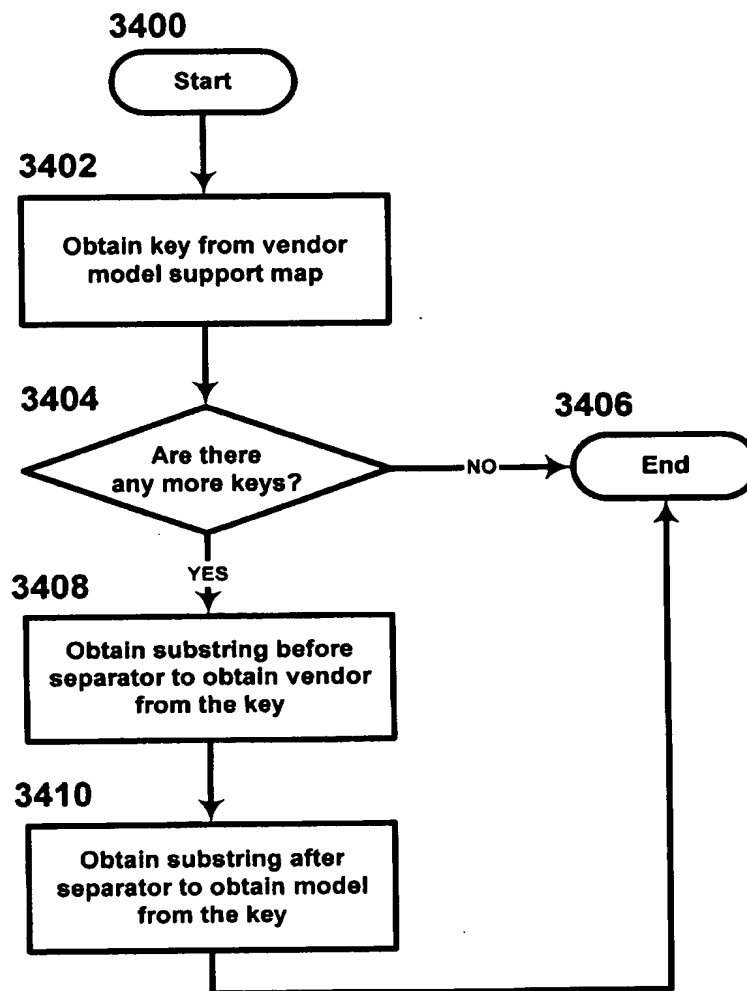


FIG. 34

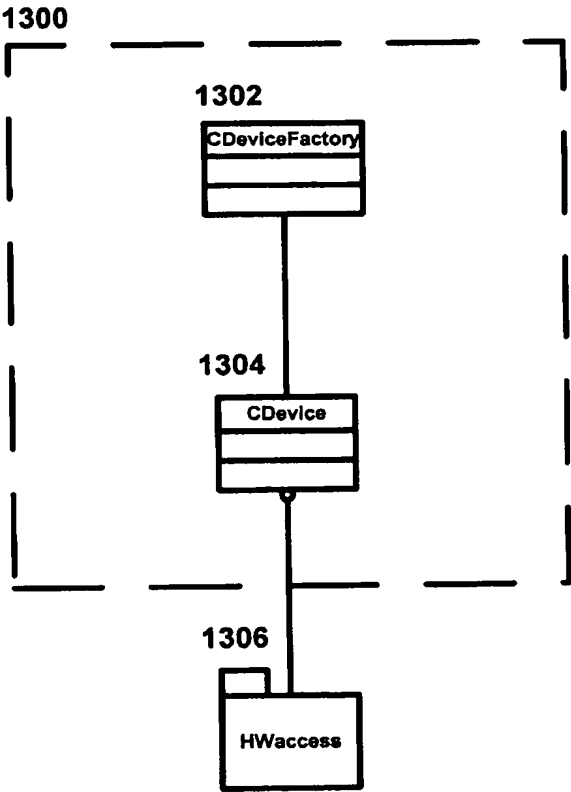


FIG. 35

Protocol Parameter Map  
1400

1402	1404
string	vector<SParameter>
string	vector<SParameter>
string	vector<SParameter>
string	vector<SParameter>
...	...

1406

```
struct SParameter {
    std::string m_sParName;
    std::string m_sParValue;
    SParameter ();
    ~SParameter ();
    void clear();
};
```

FIG. 36A

1410

SNMP	<(COMMUNITY, private)>
FTP	<(USERNAME, abc), (PASSWORD, xyz)>

FIG. 36B

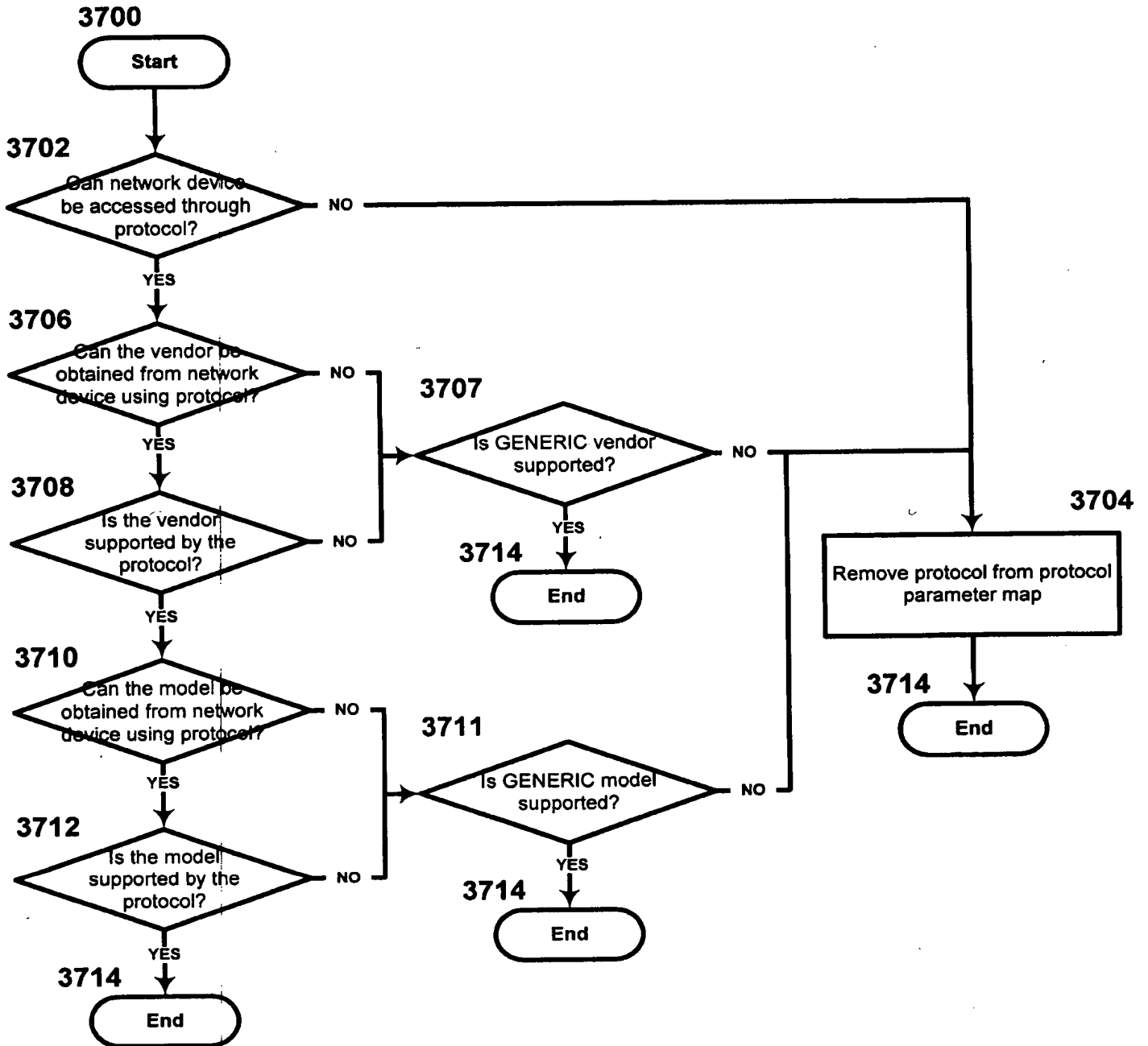


FIG. 37